Introduction

Approximate number system (ANS) acuity correlates with math abilities in children.

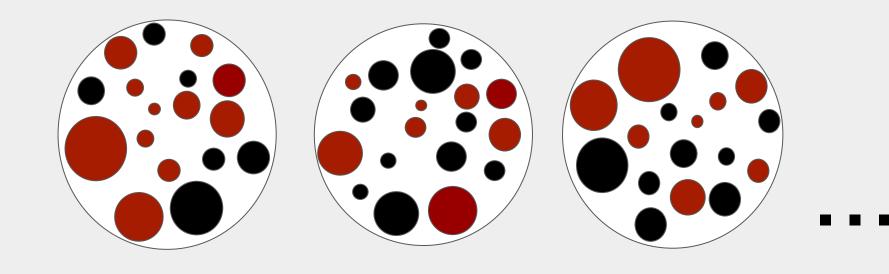
Researchers have speculated that there may be a *causal link*: ANS \rightarrow math.

Education is also known to correlate with ANS acuity.

Here we ask: **How are education, math** ability, and ANS acuity related?

Methods

◆ We recruited 164 Tsimane' ages 15-77 to participate in ANS and math tasks. > ANS task: quantity discrimination.



> Math task: arithmetic problems.

4 + 3 = ?**8** + **5** = **?** 2 + 3 = ?. . .

Used a hierarchical Bayesian model to infer participants' Weber fractions (ANS acuity) and, jointly, the effects of education, math, and attentional lapses.

Does number estimation support math abilities? Evaluating the role of education in the Tsimane'

